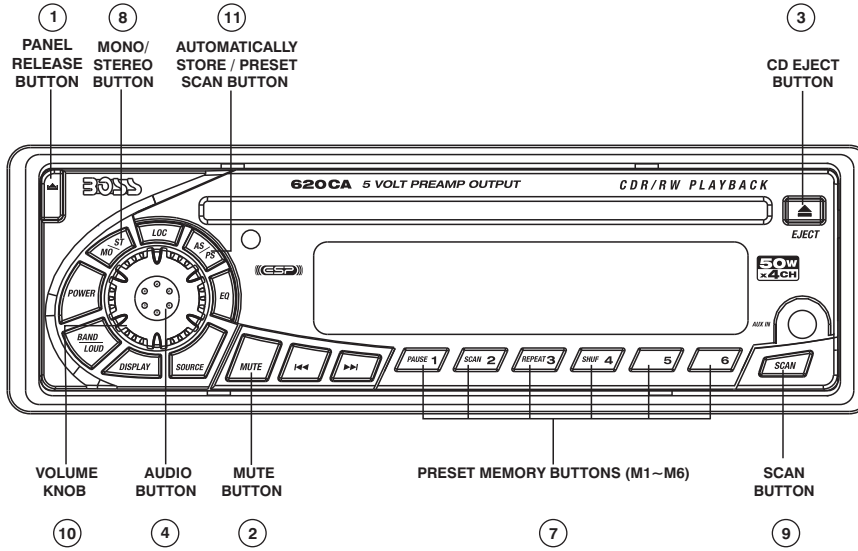
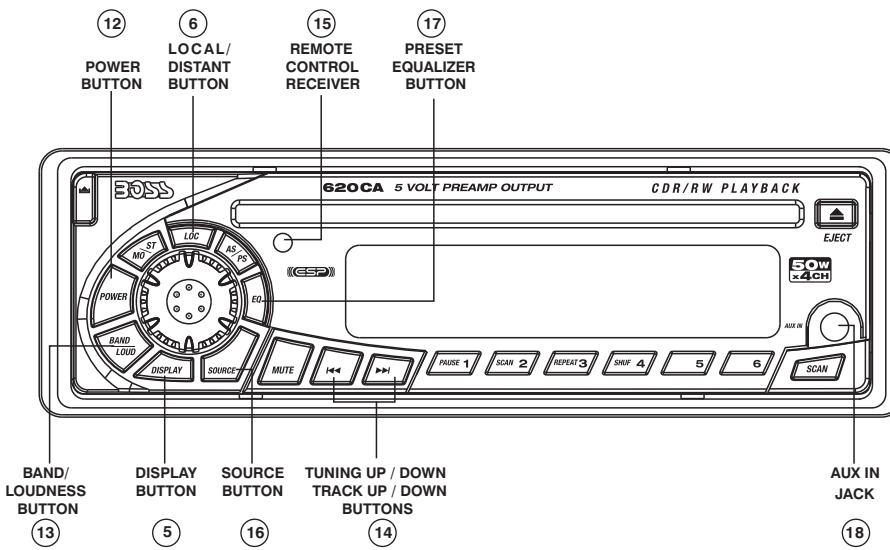
User's Manual

620CA
In-Dash CD Receiver

BOSS®
AUDIO SYSTEMS

1. BUTTONS LOCATION AND FUNCTIONS





2. HANDLING COMPACT DISCS

MOISTURE CONDENSATION

On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit. Should this occur, the unit will not operate properly. In such a case, remove the disc and wait for about an hour until the moisture has evaporated.

NOTES ON CDs

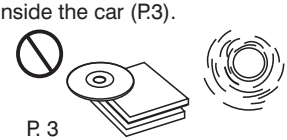
1. A dirty or defective disc may cause sound dropouts while playing. To enjoy optimum sound, handle the disc as follows.
   Handle the disc by its edge. To keep the disc clean, do not touch the surface (P.1).

P. 1

2. Do not stick paper or tape on the disc (P.2).

P. 2

3. Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in temperature inside the car (P.3).



P. 3

4. Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the center out (P.4).

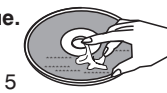
P. 4

5. Do not use solvents such as benzine, thinner,commercially available cleaners, or antistatic spray intended for analog discs.

NOTES ON DISCS

If you use the discs explained below, the sticky residue can cause the CD to stop spinning and may cause malfunction or ruin your discs.
Do not use second-hand or rental CDs that have a sticky residue on the surface (for example, from peeled-off stickers or from ink, or glue leaking from under the stickers).

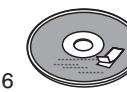
There are paste residue. Ink is sticky (P.5).



P. 5

Do not use CDs with old labels that are beginning to peel off.

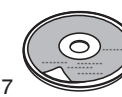
Stickers that are beginning to peel away, leaving a sticky residue (P.6).



P. 6

Do not use your CDs with labels or stickers attached.

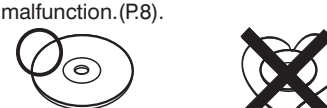
Labels are attached (P.7).



P. 7

Do Not Use Special Shape CDs

Be sure to use round shape CDs only for this unit and do not use any special shape CDs. Use of special shape CDs may cause the unit to malfunction.(P.8).



P. 8

Be sure to use CDs with disc mark

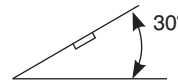
COMPACT disc DIGITAL AUDIO
COMPACT disc DIGITAL AUDIO RECORDABLE
COMPACT disc DIGITAL AUDIO REWRITABLE

Only for this unit.

CD-Rs and CD-RWs which have not undergone finalization processing cannot be played. (For more information on finalization processing, refer to the manual for your CD-R/CD-RW writing software or CD-R/CD-RW recorder.) Additionally, depending on the recording status, it may prove impossible to play certain CDs record on CD-R or CD-RW.

3. INSTALLATION

- Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance.



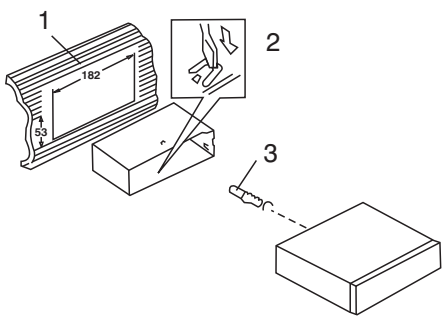
- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from heater, or where it would be subject to dust dirt or excessive vibration.
- Be sure to remove the front panel before installing the unit.

DIN FRONT/REAR-MOUNT

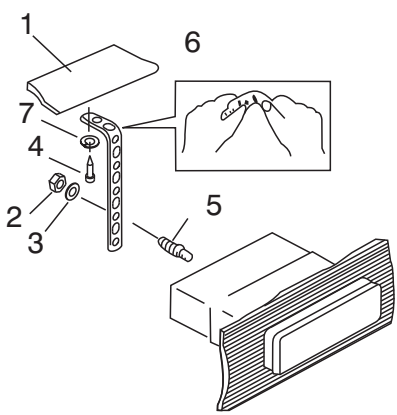
This unit can be property installed either from “Front” (conventional DIN Front-mount) or “Rear”(DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods A and B.

DIN FRONT-MOUNT (Method A)

Installation the unit

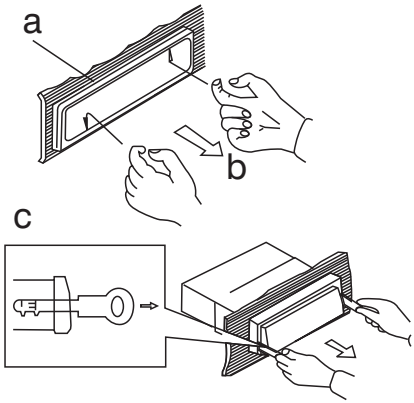


1. Dashboard
2. Holder
   After inserting the half sleeve into the dashboard, select the appropriate tab according to the thickness of the dashboard material and bend them inwards to secure the holder in place.
3. Screw



1. Dashboard
2. Nut (5mm)
3. Spring washer
4. Screw (4x12mm)
5. Screw
6. Support Strap
   Be sure to use the support strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle.
7. Plain washer

Removing the unit



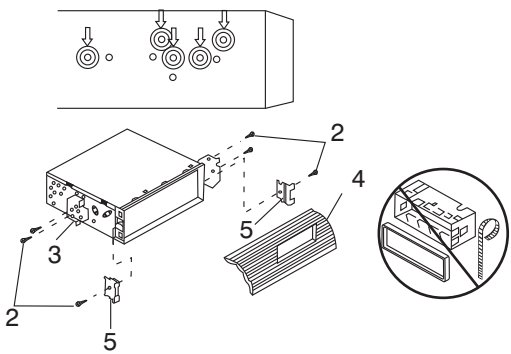
a. Frame
b. Insert fingers into the groove in the front of frame and pull out to remove the frame. (When re-attaching the frame, point the side with a groove down wards and attach it.)
c. Insert the levers supplied with the unit into the grooves at both sides of the unit as shown in figure until they click. Pulling the levers makes it possible to remove the unit from the dashboard.

Trim Plate Installation:

Push the trim plate against the chassis until it is fitted**.**
You must do this before you install the front panel, otherwise it can't be attached.

DIN REAR-MOUNT (METHOD B)

Installation using the screw holes on the sides of the unit.
Fastening the unit to the factory radio mounting bracket.

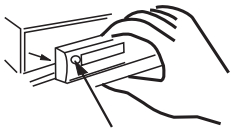


1. Select a position where the screw holes of the bracket and the screw holes of the main unit become aligned (are fitted) and tighten the screws at 2 places on each side.
2. Screw
3. Factory radio mounting bracket.
4. Dashboard or Console
5. Hook (Remove this part)

Note: the mounting box, outer trim ring, and half-sleeve are not used for method B installation.

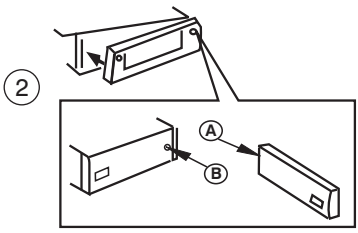
4. DETACHABLE CONTROL PANEL (D.C.P.)

Removing The Detachable Control Panel (D.C.P.).



1. Turn the power off
2. Press the D.C.P. release button
3. Remove the D.C.P.

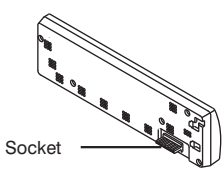
Attaching the DCP



1. Attach the panel at the right side first, with point B on the main unit touching point A on the D.C.P. (As shown on the digram).
2. Then press the left side of D.C.P. onto the main unit until a “click” sound is heard.

CAUTION

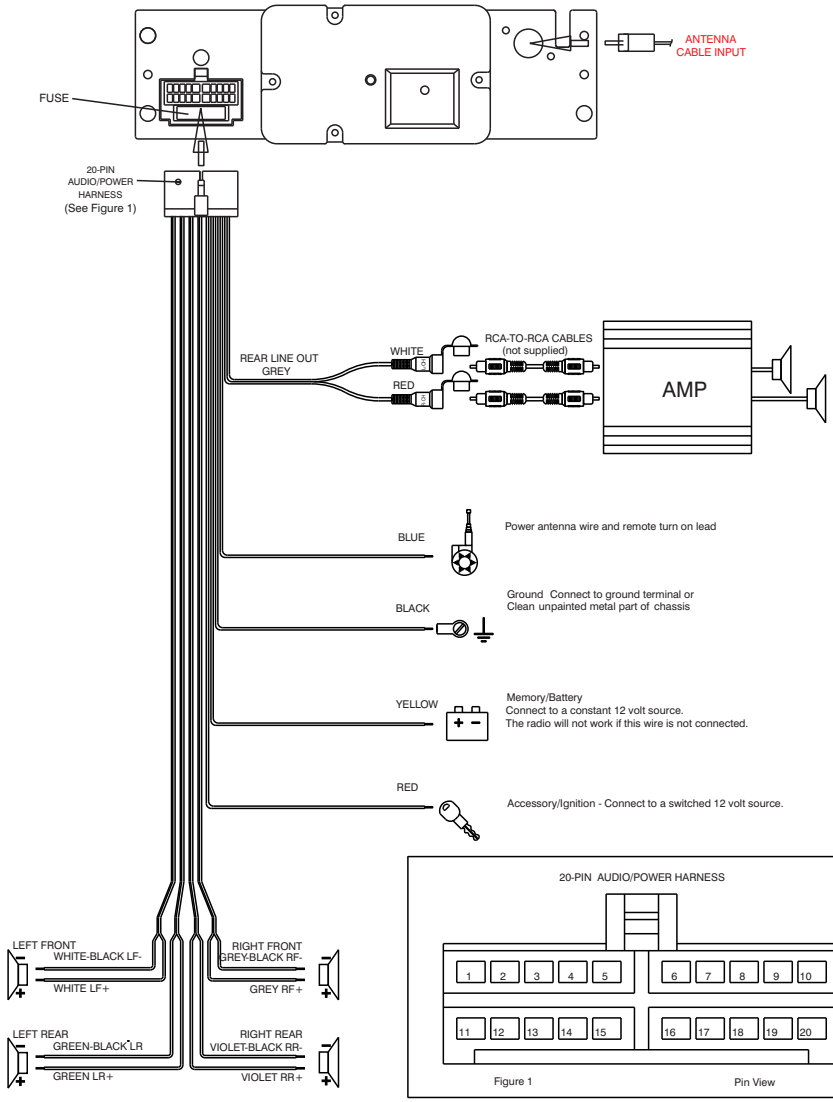
- DO NOT insert the D.C.P from the left side. Doing so may damage it.
- The D.C.P can easily be damaged by shocks. After removing it, place it in a protective case and be careful not to drop it or subject it to strong shocks.
- When the release button is pressed and the D.C.P is unlocked, the car's vibrations may cause it to fall. To prevent damage to the D.C.P, always store it in a protective case after detaching it.
- The rear connector that connects the main unit and the D.C.P is an extremely important part. Be careful not to damage it by pressing on it with fingernails, pens, screwdrivers, etc.



Note:

If the D.C.P is dirty, wipe off the dirt with soft, dry cloth only. And use a cotton swab soaked in isopropyl alcohol to clean the socket on the back of the D.C.P.

5. WIRING DIAGRAM (20 PIN HARNESS PLUG)



PIN	WIRE COLOR	FUNCTION/LABEL
1	GREY/BLACK	RIGHT FRONT SPEAKER (-)
2	GREY	RIGHT FRONT SPEAKER (+)
3	VIOLET	RIGHT REAR SPEAKER (+)
4	VIOLET/BLACK	RIGHT REAR SPEAKER (-)
5		
6	GREEN	LEFT REAR SPEAKER (+)
7	GREEN/BLACK	LEFT REAR SPEAKER (-)
8	RED	IGNITION(ACC)
9	BLACK	REAR PRE-AMP LINE OUT COMMON
10	RED	RIGHT REAR PRE-AMP LINE OUT

PIN	WIRE COLOR	FUNCTION/LABEL
11	WHITE	LEFT FRONT SPEAKER (+)
12	WHITE/BLACK	LEFT FRONT SPEAKER (-)
13		
14	BLUE	POWER ANTENNA
15	YELLOW	BATTERY(+)
16	BLACK	CHASSIS GROUND
17		
18		
19		
20	WHITE	LEFT REAR PRE-AMP LINE OUT

6. BASIC OPERATIONS

1) PANEL RELEASE BUTTON (REL)

Press this button to remove the control panel.

12) POWER ON/OFF BUTTON

Press this button to turn on or off the power.

5) DISPLAY BUTTON (DISP)

Press this button briefly, the LCD will display the clock for about 2 seconds, then return to previous display mode.

Clock Adjustment

Under clock display mode, press DISP button until the LCD flashes, press Tuning Up Button to adjust hour and Tuning Down Button to adjust minute.

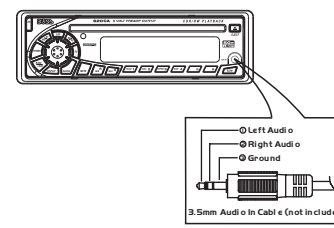
16) SOURCE BUTTON (SOURCE)

Press this button to select Radio and CD modes.
The available selections depends on version:
Radio CD Player
Radio > CD

18) FRONT AUXILIARY INPUT JACK

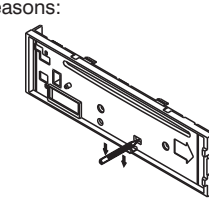
Connect the external signal to AUX in jack located at the front of the panel , then press SOURCE button to select Aux mode. Press SOURCE button again to cancel Aux mode and return to previous mode.

AUX IN JACK IN PANEL



RESET BUTTON

The RESET button is located on the main unit (as shown on the diagram). To press it vertically with a ballpoint pen or metal object will activate it. The reset button is to be activated for the following reasons:



- Initial installation of the unit when all wiring is completed.
- All the function buttons do not operate.
- Error symbol on the display.

Note: If the unit cannot function normally after reseting, please use a cotton swab soaked in isopropyl alcohol to clean the socket on the back of the control panel.

7. AUDIO OPERATIONS

10) VOLUME KNOB

Turn this knob to adjust desired volume level.

4) AUDIO BUTTON

Press this button to select desired audio function.

ORDER OF FUNCTION:

VOLUME(VOL) -> BASS(BAS) -> TREBLE(TRE) ->BALANCE(BAL) ->FADER(FAD)

While the selected function is displayed, turn Volume Knob to adjust the level within 5 seconds, otherwise the unit will return to volume adjustment mode.

BEEPS 2ND,BEEP ALL ,BEEP OFF

Press and hold SELECT button to determine how the beep sound is generated when the keys are pressed,using V-UP/V-DN to select the desires settings:

BEEP 2ND Beeps only when the second function of the dual function button is selected (long press).

BEEP ALL Beeps when any buttons is pressed.

BEEP OFF To disable the beep option.

2) MUTE BUTTON (MUTE)

Press this button to mute the sound. Press it again to resume listening.

17) PRESET EQUALIZER BUTTON (EQ)

Press this button to toggle the following EQ settings:

FLAT->CLASSICS->POP M->ROCK M->DSP OFF

At DSP OFF mode, EQ will be controlled by Bass/Treble setting.

13) BAND/LOUDNESS BUTTON (BAND/LOUD)

Press the Band/Loudness Button for couple of seconds to switch the loudness on or off. When Loudness is on, display will show 'Loud On' for a few seconds.

8. RADIO OPERATIONS

11) AUTO MEMORY STORE/PRESET SCAN BUTTON (AS/PS)

1. PRESET SCAN: Press AS/PS button briefly to enter Preset Scan mode, it will scan all the preset stations in the memories, you can hear that it will stay on each station for about 5 seconds.
2. AUTO MEMORY STORE: Press AS/PS button for couple of seconds to enter Auto Store mode, this feature will automatically scan the current band and enter up to 6 strongest stations into the 6 preset memories. To stop Auto Store & Scan, press the AS/PS button again.

7) STATION PRESET BUTTONS (M1-M6)

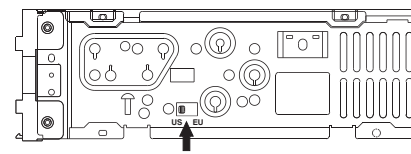
1. Press these buttons briefly to recall the stored stations in the selected band.
2. Presetting stations manually, Press the BAND button to select the band for the stations to be preset. Use Tuning Up/Down to tune in the stations to be preset. Press the Preset button at which you want to store the station for at least 2 second. The preset number will appear on the display accompanied by a beep, this indicates that the station has been stored into memory.

13) BAND/LOUDNESS BUTTON (BAND/LOUD)

This a dual function button. Press this button shortly to change between BAND FM1, FM2, FM3 or AM bands. Press this button for couple of seconds to turn Loudness function on or off.

DUAL FREQUENCY SWITCH

Unit is defaulted in U.S.A frequency, if EURO frequency is required, a sharp pen is needed to switch the button on the left side of the chassis to EURO frequency.



14) TUNING / SEEK UP AND TUNING / SEEK DOWN BUTTONS

1. Press these buttons briefly, and the unit will operate in AUTO SEARCH tuning mode, the radio will tune up or down to the next station and remain on that station.
2. Press these buttons for more than 2 seconds, operate as MANUAL SEARCH buttons, under this mode the tuning frequency will advance up or down rapidly when the button is pressed. If the buttons are not pressed within 3 seconds, they will return to auto search mode.

8) MONO STEREO BUTTON (MO/ST)

When you receive a station,“ST” on the display will be on. Press this button to enter Mono mode.

9) SCAN BUTTON(SCAN)

Press this button, the radio will tune up to search stations, the available stations will blink and stay on the display for a few seconds.

6) LOCAL/DISTANT BUTTON (LOC)

During station tuning, this button allows you prior to access strong local station only (Local mode), or to access a wider range of using distant mode (DX). When powered on, DX mode will be defaulted automatically; Press LOC button briefly to select Local mode and “LOCAL” symbol on the LCD will light up for a few seconds.

9.CD OPERATIONS

M1) PAUSE BUTTON (PAUSE)

Press this button to pause CD play, press again to release pause.

M2) SCAN BUTTON (SCAN)

Press this button, the first 10 seconds of each track will be played sequentially until this button is pressed again, then normal play will resume at the current track.

M3) REPEAT BUTTON (REPEAT)

Press this button, the current track will be played repeatedly until this button is pressed again.

M4) SHUFFLE BUTTON (SHUFFLE)

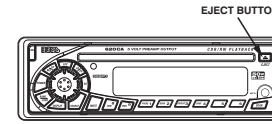
Press this button to play all tracks on CD in random. Press again to deactivate it.

14) TRACK UP AND TRACK DOWN BUTTON

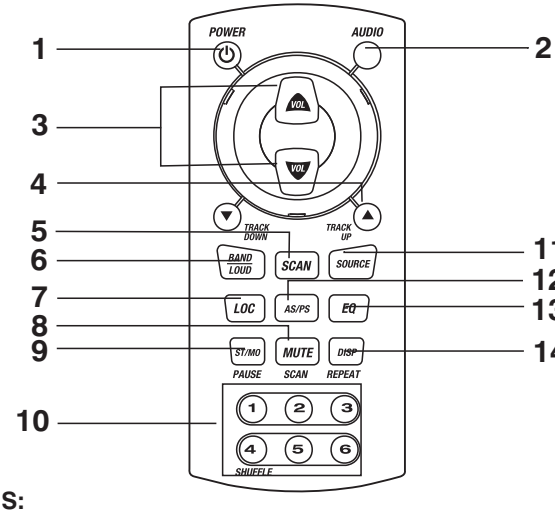
Press the Track Up Button to skip to the next track or previous track. Press the Track Down button during play will return to the beginning of the current track, press it one more time to skip to previous skip. Press and hold Track Up/Down Button to fast forward or fast reverse. CD player starts playing when you release the button.

EJECT BUTTON ⏏

Press this button to eject the CD from the unit. The receiver will switch to radio mode automatically.



10.REMOTE CONTROL



OPERATIONS:

Key	Radio Mode	CD Player Mode
1. Power(⏻)	Power On/Off	Power On/Off
2. Audio	Select Vol, Bas, Tre, Fad, Bal	Select Vol, Bas, Tre, Fad, Bal
3. Volume Up/Down	Adjust Vol,Bas, Tre,Fad,Bal	Adjust Vol,Bas, Tre,Fad,Bal
4. Tuning Up/Down	Tuning/Seek Up/Down	Track Up/Down
5. Scan (SCN)	Station Scan	No Function
6. Band (BND)	Band/Loudness	Loudness
7. Loc	Local/DX	No Function
8. Mute	Mute	Mute
9. Mono/ST (MO)	FM Mono/Stereo	No Function
10. Numeric Key(1)	Preset station 1	Pause
(2)	Preset station 2	CD Scan
(3)	Preset station 3	Repeat
(4)	Preset station 4	Shuffle
(5)	Preset station 5	No Function
(6)	Preset station 6	No Function
11. Mode (MOD)	Change to CD Mode	Change to Radio Mode
12. AMS	Auto Store/Preset Scan	No Function
13. PEQ	Preset EQ	Preset EQ
14. DISP	Display Clock	Display Clock, Track, Play Time

11.SPECIFICATIONS

CD PLAYER

System	Compact disc audio system
Usable disc	Compact disc
Sampling frequency	44.1KHz
No of quantization bits	1bit
Frequency	5-20,000Hz
Number of channels	2 stereo
S/N Ratio	70dB

RADIO SECTION

FM

Frequency Range	87.5-107.9MHz 87.5-108MHz
Intermediate Frequency	10.7 MHz
Usable Sensitivity	Better than 15dB at S/N 30 dB
Stereo Separation	25 dB at 1KHz
S/N Ratio	50 dB

AM/MW

Frequency Range	530-1710KHz 522-1620KHz
Intermediate Frequency	450KHz
Usable Sensitivity	Better than 45dB
S/N Ratio	40 dB

GENERAL

Power Supply	DC 11 -14V
Polarity	Negative Ground
Speaker impedance	4 ohms
Power Output	4x 50 Watts

REMARK :

Specifications subject to change without notice.

12.TROUBLE SHOOTING

Before going through the check list, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

Symptom	Cause	Solution
No power	The car ignition is not on.	If the power supply is properly connected to the car accessory terminal, switch the ignition key to “ACC”
	The fuse is blown.	Replace the fuse.
Disc cannot be loaded or ejected	Presence of CD disc inside the player.	Remove the disc in the player, then put a new one.
	Inserting the disc in reverse direction.	Insert the compact disc with the label facing upward.
	Compact disc is extremely dirty or defective disc.	Clean the disc or try to play a new one.
	Temperature inside the car is too high.	Cool off or until the ambient temperature returns to normal.
	Condensation.	Leave the player off for an hour or so, then try again.
No sound	Volume is in minimum.	Adjust volume to a desired level.
	Wiring is not properly connected.	Check wiring connection.
The operation keys do not work	The built-in microcomputer is not operating properly due to noise.	Press the RESET button. Front panel is not properly fixed into its place
Sound skips.	The installation angle is more than 30 degrees.	Adjust the installation angle to less than 30 degrees.
	The disc is extremely dirty or a defective disc.	Clean the compact disc or try to play a new one.
The radio does not work. The radio station automatic selection does not work.	The antenna cable is not connected.	Insert the antenna cable firmly.
	The signals are too weak.	Select a station manually.
ERROR 1	Mechanism Error	Press the reset button if the error code does not disappear, consult your nearest service dealer.
ERROR 2	Servo Error	Press the reset button if the error code does not disappear, consult your nearest service dealer.

If at any time in the future you should need to dispose of this product please note that Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.(Waste Electrical and Electronic Equipment Directive)

620CA
IN-DASH CD RECEIVER
10.2007

tech support: www.bossaudio.com/support

BOSS®
AUDIO SYSTEMS

BOSS Audio Systems • 3451 Lunar Court • Oxnard, CA 93030
www.bossaudio.com
800.999.1236

e13
021518